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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|-----------------------|------------------|
| 09/904,236 | 07/12/2001 | Edward O. Clapper | INTL-0628-US (P12052) | 2118 |

7590 08/09/2002

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| EXAMINER |
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TANG, SON M

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| ART UNIT | PAPER NUMBER |
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2632

DATE MAILED: 08/09/2002

7,8

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/904,236

Applicant(s)

CLAPPER, EDWARD O.

Examiner

Son M Tang

Art Unit

2632

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 29 March 2002.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9, 11-19 and 21-29 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-19 and 21-29 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____
- 4) ☒ Interview Summary (PTO-413) Paper No(s) 7
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

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DETAILED ACTION

1. In view of the petition filed on July 10, 2002, applicant's request for reconsideration of the finality of the rejection of the last Office action is persuasive and, therefore, the finality of that action is withdrawn.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims **1, 11, 21, 5-7, 17-19 and 24-26** are rejected under 35 U.S.C. 102(b) as being anticipated by **Komatsu** [U.S. Pat. 5,646,616].

As to claims 1: **Komatsu** disclose a method comprising, a positioning a plurality of wireless tags (6) around a facility (see Fig. 1), providing a sensor (met by an antenna 60 combines with section 72) associated with a user to sense the tags (6) to determine the position of the user in the facility (as shown in Fig. 1-3 and col. 3, lines 15-25), and obtaining information about the route and direction of travel of a user through the facility (as cited in col. 2, lines 63-68 and col. 3, lines 37-40).

As to claim 11: **Komatsu** discloses an article comprising a medium (IC card 91) storing instructions that enable a processor-based system (met by a host computer) (col. 2, line

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48), to receive information from a plurality of wireless tags (6) distributed about a facility, and analyze information from the tags to determine the location of a user, and obtain information about the route and direction of travel of the user through the facility (as shown in Fig. 1-3 and col. 2, lines 46-68 and col. 3, lines 29-40).

As to claim 21: Komatsu discloses a system comprising, a plurality of wireless tags (6) a wireless sensor associated with a user (60, 72), a processor (Fig. 3) associatable with a user, and a storage (73) coupled to said processor to determine the user's position based on information from said tags, said processor tracks the direction and movement of said user (as shown in Fig. 1-3 and col. 2, lines 46-68 and col. 3, lines 29-56 and col. 4, lines 1-30).

As to claims 5-7 and 9: Komatsu further discloses a plurality of sensors associated with the user, each sensor on a shopping cart and to sense the identify information from each of a plurality wireless tags to determine the position of the user in the facility (as shown in Fig. 1-3 and col. 3, lines 15-40).

As to claim 8: Komatsu further discloses wherein the information from said wireless tags (6) to a server (met by a host computer, col. 2, line 48), since the host computer is control the entire picking system (as cited in col. 2, lines 46-68).

As to claim 18: Refer to claim 8 above.

As to claims 17, 19, 24-26: Refer to claims 5-7 above.

Claim Rejections - 35 USC § 103

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4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims **2-4, 12-16, 22-23 and 27** are rejected under 35 U.S.C. 103(a) as being unpatentable over **Komatsu** [U.S. Pat. 5,646,616] in view of **Jelen et al.** [U.S. Pat. 6,119,935].

As to claims 2-4 : Komatsu discloses a host computer (cited in col. 2, line 48) comprising a process system in Fig. 3, which receives information from a sensor associated with the user (which met by an antenna 60) and an (IC card reader /writer 90) for pushing information to the shopping cart depending on the cart's current location (as shown in Fig. 3 and col. 2, lines 46-68), Komatsu fails to specify wherein the wireless linking a plurality of shopping carts through a local area network to the server, **Jelen et al.** teach a system which comprising a wirelessly link a plurality of shopping carts within a retail facility through a local area network to the server (58) and enable the carts to exchange information through said network, such as cart location (as shown in Fig. 1 and col. 4, lines 7-21). It would have been obvious of one having ordinary skill in the art at the time the invention was made to employ a local area network as taught by Jelen et al. into the system of Komatsu for the purpose of a faster response, since there is many users (carts) are in the same facility area to be detected.

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As to claims 12-16: Refer to claims 2-4 above.

As to claims 22-23 and 27: Refer to claims 2-4 above.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Son M. Tang** whose telephone number is (703) 306-5970. The examiner can normally be reached on Mon. to Fri. from 7:30a.m. to 5:00p.m. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Jeffery Hofsass**, can be reached on (703) 305-4717.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

7. **Any response to this action should be mailed to :**

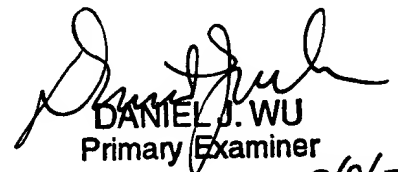
Commissioner of Patents and Trademarks
Washington, D.C. 20231

or faxed to: (703)872-9314 (note: for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2021 Crystal Drive,
Arlington, VA., Sixth Floor (Receptionist).

Son Tang

August 1, 2002


DANIEL J. WU
Primary Examiner
8/8/02